ABC GE-8 STARGUIDE III SATELLITE RECEIVER QUICK START

***PLEASE REVIEW THIS QUICK START GUIDE IN ITS ENTIRETY BEFORE INSTALLING YOUR RECEIVER*.**

- **It is critical to make all satellite RF and audio connections prior to applying AC power to the Starguide receiver.**

- **The Starguide III receiver must be powered down before you install or remove any option cards located in the expansion ports. None of the cards in the receiver are "hot-swappable".**

- **ABC strongly recommends the use of a Phase Lock Loop (PLL) LNB for your new Starguide receiver. The Local Oscillator (LO) stability of your LNB should not exceed 100kHz.**

- **If this receiver is designated to supply DC power to the LNB at your dish, be sure to turn on the LNB VOLTAGE switch on the back of the receiver.**

- **ABC urges stations to use an Uninterruptible Power Supply (UPS) for the Starguide receiver for equipment protection from power spikes or brownouts. Also consider lightning protection if you are located in an area susceptible to frequent lightning storms. A surge suppressor is not sufficient.**

- **The ABC Radio Networks New York Technical Services office is staffed Monday-Friday from 9:00am until 5:00pm ET for receiver authorization and technical assistance.**

(212) 456-5000 – option #4
(212) 456-5708 – fax
E-MAIL: techservices@abc.com

AUDIO OUTPUTS:

The analog audio outputs for your services appear at the DB-9 connectors on the DECODER cards plugged into the expansion ports at the back of the Starguide receiver. Wiring pinouts are on the BACKPLANE DIAGRAM.

RULE #1: There are two audio sources on each DECODER. PINS 1 and 6 are the left, or A, channel and PINS 5 and 9 are the right, or B, channel.
RULE #2: Do not wire to the MONO SUM of the DECODER. Most feeds are fed in dual-mono. You will get both feeds on the MONO SUM output.

NETCUE CLOSURES:

16 programmable contact closures are available on the DB-37 connector on the NETCUE DATA CARD (labeled RELAYS and SER1) in PORT F. A serial output for ABC Data is available on the RJ-45 connector. Refer to the attached pin-out diagram for connection instructions.

RELAY CLOSURES:

Several of the ABC Satellite Services clients use the four (4) relay closures that are built in to the audio decoder card. Pinout instructions for these closures can be found on the BACKPLANE DIAGRAM. Contact your program syndicator for relay assignments.

Your receiver may have an extra RELAY CONTACTS card in PORT B. This card is basically an extension of the four (4) relays built in to PORT C. This card provides an additional 12 relay closures, if needed. Be advised that these two cards are physically connected and must be removed or inserted as a pair. Both cards will be damaged if you attempt to remove them individually.

24-HOUR MUSIC FORMATS:

If you intend to use this receiver for one of ABC Radio's 24-hour music formats, you should use the DECODER card in PORT C and the RELAY CONTACTS card in PORT B. Be advised that these two cards are physically connected and must be removed or inserted as a pair. Both cards will be damaged if you attempt to remove them individually.

RULE #1: The RELAY CONTACTS card physically plugs in to the audio DECODER card directly beneath it !
RULE #2: You should not use the NETCUE/DATA card for 24-hour format relay closures.

RECEIVER TUNING:

Your Starguide III receiver is pre-tuned to ABC's carrier on Satcom C-5 (GE-8). Once you apply AC power, you should see the following on the green LCD display:

STARGUIDE III
EB ##.# AG ### (# = numerical value)

If the receiver does not acquire our carrier, the red LED will illuminate steadily and the LCD screen will display:

STARGUIDE III
ACQUIRING

In the event the Starguide receiver needs to be tuned to ABC's Starguide carrier on Satcom C-5 (GE-8):

Press <*Enter*> on the Starguide keypad:
Press until you get to CARRIER MENU, press <*Enter*>
Press until you get to MANUAL ENTRY, press <*Enter*>
Enter the frequency: 1103700 kHz, press <*Enter*>
Enter the data rate: 7680000 BPS, press <*Enter*>
Press until: VIT: 2/3 is displayed, press <Enter>

The receiver should lock. (Green SIGNAL and SYNC LEDs will illuminate steadily).

- It may take a several minutes for the receiver to download the ABC Starguide Provider and Service tables.

RECEIVER PORT CONFIGURATION:

For ABC Radio Networks' 24-hour music formats::

Press <*Enter*> on the Starguide keypad:
Press until you get to PORT MENU, press <*Enter*>
Press until you get to PORT C, press <Enter>
Press <*Enter*> to select PROVIDER, press <*Enter*> again;
Press until you get to ABC RADIO, press <*Enter*>
Press until you get to SERVICE, press <*Enter*>
Press until your 24-hour format is displayed, press <*Enter*>

RECEIVER PORT CONFIGURATION: (cont.)

To receive ABC Radio Networks' News or ESPN Radio:

Press <*Enter*> on the Starguide keypad:
Press until you get to PORT MENU, press <*Enter*>
Press until you get to the desired PORT with an audio card, press <Enter>
Press <*Enter*> to select PROVIDER, press <*Enter*> again;
Press until you get to ABC NEWS, press <*Enter*>
Press until you get to SERVICE, press <*Enter*>
Press until your ABC News service or ESPN is displayed, press <*Enter*>

To receive ABC Talk, ABC Commercial Bulk Feeds, Dick Bartley, WOR, or other syndicated programming distributed by ABC Satellite Services:

Press <*Enter*> on the Starguide keypad:
Press until you get to PORT MENU, press <*Enter*>
Press until you get to the desired PORT with an audio card, press <Enter>
Press <*Enter*> to select PROVIDER, press <*Enter*> again;
Press until you get to ABC NY, press <*Enter*>
Press until you get to SERVICE, press <*Enter*>
Press until the desired service is displayed, press <*Enter*>

To configure the Netcue/Data card:

Press <*Enter*> on the Starguide keypad:
Press until you get to PORT MENU, press <*Enter*>
Press until you get to PORT F, press <Enter>
Press until you get to CARD TYPE, press <Enter>
Press until you get to Ethernet Card, press <Enter>
NOTE: If this Starguide III receiver also has an EDAS card, then you may need to set CARD TYPE to EDAS)
Press to select YES to confirm, then press <Enter>
Press until you get to PROVIDER, press <Enter>
Press until you get to ABC NEWS, press <*Enter*>
Press until you get to SERVICE, press <*Enter*>
Press until the NETCUE/DATA is displayed, press <*Enter*>

Once your receiver has been configured, it will take approximately 30 minutes for the receiver to download the authorization commands from ABC. You will know the receiver has been authorized if the N/A to the right of the desired service(s) disappears.

If you experience difficulties, the ABC Technical Services office is staffed Monday through Friday from 9:00am until 5:00pm ET. You will need to provide the entire receiver serial number located on the back of the Starguide receiver.

NETCUE/DATA CARD
INSTALLATION GUIDE

The NCC contains 16 Form "A" relays to present dry contact closures to the user It also contains a serial output of ABC DATA. Follow the tables below to wire the NetCue contact closures and ABC DATA serial output properly:

NETCUES

37 PIN RELAY CONNECTOR

PIN	Function	PIN	Function
1	RLY0A	20	RLY0B
2	RLY1A	21	RLY1B
3	RLY2A	22	RLY2B
4	RLY3A	23	RLY3B
5	CHASSIS GND	24	CHASSIS GND
6	RLY4A	25	RLY4B
7	RLY5A	26	RLY5B
8	RLY6A	27	RLY6B
9	RLY7A	28	RLY7B
10	CHASSIS GND	29	RLY8B
11	RLY8A	30	RLY9B
12	RLY9A	31	RLY10B
13	RLY10A	32	RLY11B
14	RLY11A	33	NETQ RXD
15	NETQ TXD	34	RLY12B
16	RLY12A	35	RLY13B
17	RLY13A	36	RLY14B
18	RLY14A	37	RLY15B
19	RLY15A		

IMPORTANT: DO NOT connect your automation device to PINS 5, 10, 15, 24 or 33. PINS 5, 10 and 24 are receiver chassis grounds. PINS 15 and 33 are serial connections for the NetCue data stream to use with existing ABC NetCue II boxes. Your relays will not function properly if you wire to these pins.

PRINTER OR WIRE CAPTURE
RJ-45 SERIAL CONNECTOR

PIN	FUNCTION	PIN	FUNCTION
1	RTS	5	GND
2		6	RXD
3	TXD	7	
4		8	CTS

Serial output: 9600 baud, 8 Data Bits, No Parity, 1 stop-Bit (9600,8,N,1)

A Data Cable Configuration
For Starguide Netcue card

NCC (RJ-45) DCE to Printer (DB-25) DTE

6	<---------->	2
3	<---------->	3
5	<---------->	7
1	<---------->	5
8	<---------->	4

NCC (RJ-45) DCE to Computer (DB-9) DCE

6	<---------->	3
3	<---------->	2
5	<---------->	5
1+8	<---------->	1*

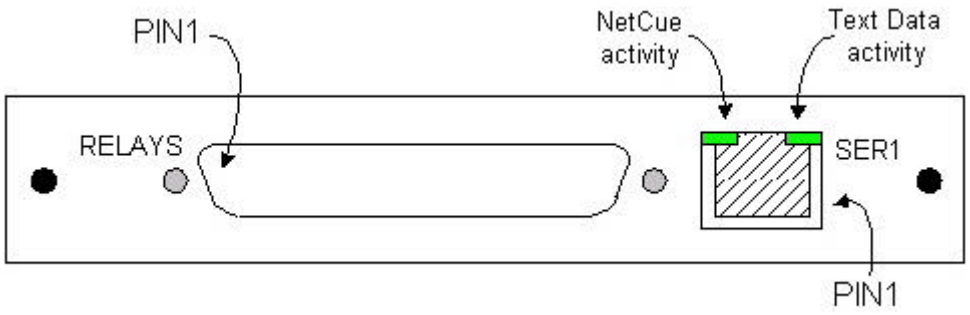
(*or use no flow control and do not connect)

NCC (RJ-45) DCE to Computer (DB-25) DCE

6	<---------->	2
3	<---------->	3
5	<---------->	7
1+8	<---------->	20*

(*or use no flow control and do not connect)

Please note all cable configurations.



ANETCUE

CONFIGURATION CHANGE AND SELECTION FORM

Your Starguide Netcue card can be configured to match the same selections as your Netcue II decoder or Scientific Atlanta 4595 or 3610 EPROMS.

You can also change, modify or correct any of the information on your current Netcue Menu, please fill them out on this form and fax (or mail) it back to ABC Affiliate Services.

LIST PROGRAM NAME/SELECTION(S):

SPECIAL INSTRUCTIONS/COMMENTS:

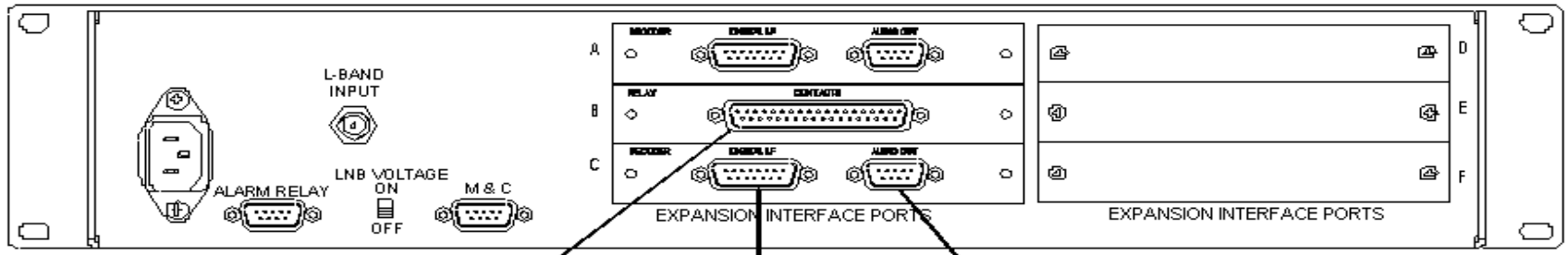
STATION INFORMATION:
CALL LETTERS:_____ **[ ]AM [ ]FM**
SHIPPING ADDRESS:_____
CITY:_____**STATE:**_____**ZIP:**_____
TELEPHONE:_____**FAX:**_____
CONTACT:_____**TITLE:**_____**DATE:**_____
E-MAIL ADDRESS**:** _____

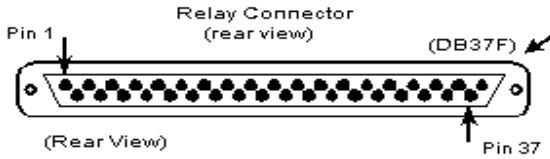
Please send this completed form to:
ABC Radio Networks Affiliate Services
125 West End Avenue
New York, N.Y. 10023
Attn: Netcue

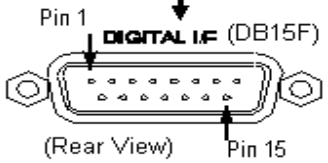
For faster service, please fax this form to: (212) 456-5708.

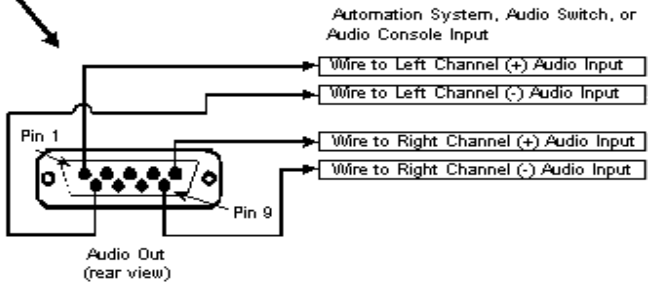
ABC Services Available on Starguide on GE-8							3/20/01
Carrier Name: ABCRADIONEWYORK	Frequency = 1103700	Data Rate = 7680000	VIT = 2/3				
Provider (ID #)	Service	ID #	SEDAT or DATS EQUIV.	Provider (ID #)	Service	ID #	SEDAT or DATS EQUIV.
ABC RADIO (4)	CLASSIC ROCK	4		ABC NY (1)	WOR1/WOR2	19	T23 SEDAT 21 / T19 SEDAT 18
ABC RADIO (4)	REJOICE!	5		ABC NY (1)	TALK 1/TALK 2	22	T23 SEDAT 54 / T23 SEDAT 20
ABC RADIO (4)	HOT AC	6		ABC NY (1)	ABC STEREO 00	23	T23 SEDAT 48 / T23 SEDAT 49
ABC RADIO (4)	MEMORIES	12		ABC NY (1)	SBLINE / SALEM	24	T19 DATS 17 / T23 SEDAT 22
ABC RADIO (4)	TOUCH	9		ABC NY (1)	DGNNET / RAMSEY	25	T23 VARIOUS / T23 VARIOUS
ABC RADIO (4)	CLASSIC R&B	8		ABC NY (1)	TLKAM1/TLKAM2	28	T15 DATS 16-0 / T15 DATS 17-1
ABC RADIO (4)	TOM JOYNER	7		ABC NY (1)	RETRO ROCK	29	T19 DATS 00 / T19 DATS 01
ABC RADIO (4)	DOUG BANKS	27					
				ABC NY (1)	SAT SRVS 01 L/R	30	T23 SEDAT 26 / T23 SEDAT 27
ABC RADIO (4)	S&F	10		ABC NY (1)	SAT SRVS 02 L/R	31	TBA
				ABC NY (1)	SAT SRVS 03 L/R	32	T23 SEDAT 23 / TBA
ABC NEWS (2)	NEWS NET1E/SATQ	11	T23 SEDAT 01 / Voice Cue 19-00	ABC NY (1)	SAT SRVS 04 L/R	33	TBA
ABC NEWS (2)	NEWS NET1C/SATQ	13	T23 SEDAT 02 / Voice Cue 19-00	ABC NY (1)	AM ONE / BTR	34	T23 SEDAT 32 / T15 DATS 11-0
ABC NEWS (2)	NEWS NET1P/SATQ	14	T23 SEDAT 03 / Voice Cue 19-00	ABC NY (1)	SAT SRVS 06 L/R	35	TBA
ABC NEWS (2)	NEWS NET 2E/3E	15	T23 SEDAT 04 / T23 SEDAT 07	ABC NY (1)	MRN/SAT SVS 07R	37	T19 DATS 16 / T19 DATS 18
ABC NEWS (2)	NEWS NET 2C/3C	16	T23 SEDAT 05 / T23 SEDAT 08	ABC NY (1)	WSJ/SAT SVS 08R	38	TBA
ABC NEWS (2)	NEWS NET 2P/3P	17	T23 SEDAT 06 / T23 SEDAT 09	ABC NY (1)	SAT SRVS 09 L/R	39	TBA
				ABC NY (1)	SAT SRVS 11 L/R	40	TBA
ABC NEWS (2)	ESPN EAST	18	T23 SEDAT 00 / T23 SEDAT 19				
ABC NEWS (2)	ABC 50/ABC 52	20	T23 SEDAT 50 / T23 SEDAT 52	ABC NY (1)	SAT SRVS 12 L/R	41	TBA
ABC NEWS (2)	ABC 51/ABC 53	21	T23 SEDAT 51 / T23 SEDAT 53	ABC NY (1)	RADIOA / TRN1	42	N/A
ABC NEWS (2)	ESPN WEST	26	T23 SEDAT 24 / T23 SEDAT 19	ABC NY (1)	SAT SRVS 14 L/R	43	TBA
				ABC NY (1)	SAT SRVS 15 L/R	44	TBA
ABC NEWS (2)	NETCUE/DATA	36	T23 DATA 19-08				

Starguide III Receiver
Backplane
(rev 11/13/00)








Automation System, Audio Switch, or
Audio Console Input
Wire to Left Channel (+) Audio Input
Wire to Left Channel (-) Audio Input
Wire to Right Channel (+) Audio Input
Wire to Right Channel (-) Audio Input
Pin 1
Pin 9
Audio Out
(rear view)

RELAY PORT PIN OUT CHART

Function No.	SG Relay No	PIN "A"	PIN "B"
1	0	1	20
2	1	2	21
3	2	3	22
4	3	4	23
5	4	6	25
6	5	7	26
7	6	8	27
8	7	9	28
9	8	11	29
10	9	12	30
11	10	13	31

Relay	"A" Pin	"B" Pin
0	2	10
1	3	11
2	4	12
3	5	13

AUDIO PORT PIN OUT

PIN	Function
1	LOUT+
2	AGND
3	MONO+
4	AGND
5	ROUT+
6	LOUT-
7	AGND
8	MONO-
9	ROUT-

IMPORTANT: Do not wire your automation to "A" pins 5, 10 or 15 or to "B" pins 24 or 33. These are receiver chassis grounds. You may wire the remaining B pins for common automation "closure to ground".